

What is claimed is:

1. A method comprising:
 - (a) providing a media construction; the media construction being made from a flexible, permeable material and having opposite first and second ends and a plurality of flutes;
 - (i) each of the flutes having a first end portion adjacent to the media construction first end, and a second end portion adjacent to the media construction second end;
 - (A) selected ones of the flutes being open at the first end portion and closed at the second end portion; and selected ones of the flutes being closed at the first end portion and open at the second end portion to result in an upstream flow face and a downstream flow face;
 - (b) cleaning the media construction by directing a flow of pressurized fluid into the media construction through the downstream flow face; and
 - (i) the pressurized fluid turning at an angle of less than 80° to flow into the downstream flow face.
2. A method according to claim 1 wherein:
 - (a) said step of cleaning includes removing at least some particulate material from the plurality of flutes by forcing the particulate material out of the flutes through the upstream flow face.
3. A method according to claim 2 wherein:
 - (a) said step of cleaning includes directing a pulse of compressed gas into the media construction through the downstream flow face.
4. A method according to claim 3 wherein:
 - (a) said step of directing a pulse of compressed gas includes periodically directing the pulse of compressed gas.

5. A method according to claim 1 wherein:
 - (a) said step of cleaning includes directing a pulse of compressed gas at a force of 5-55 inches of water.
6. A method according to claim 1 further comprising:
 - (a) directing a particulate-laden fluid through the upstream flow face of the media construction; and
 - (b) removing at least some particulates from the fluid by passing the fluid through the media construction and out through the downstream flow face.
7. A method according to claim 1 wherein:
 - (a) said step of providing a media construction includes providing a first filter element having a first media construction and a second media construction; the first media construction and the second media construction each having Z-media;
 - (i) the first media construction and second media construction being arranged in a V-shape to define a clean air plenum therebetween.
8. A method according to claim 7 wherein:
 - (a) said step of providing a first filter element having first and second media constructions further includes providing a second filter element; the second filter element having first and second media constructions of Z-media;
 - (i) the second filter element first media construction and the second filter element second media construction being arranged in a V-shape to define a clean air plenum therebetween; and
 - (ii) the first filter element and the second filter element being arranged adjacent to each other to form a V-configuration.
9. A filter element comprising:

- (a) a first media construction; the first media construction having opposite first and second ends and a plurality of flutes;
 - (i) each of the flutes having a first end portion adjacent to the media construction first end, and a second end portion adjacent to the media construction second end;
 - (A) selected ones of the flutes being open at the first end portion and closed at the second end portion; and selected ones of the flutes being closed at the first end portion and open at the second end portion to result in a first media construction upstream flow face and a first media construction downstream flow face;
 - (ii) the first media construction forming a non-rectangular parallelogram;
- (b) a second media construction; the second media construction having opposite first and second ends and a plurality of flutes;
 - (i) each of the second media construction flutes having a first end portion adjacent to the second media construction first end, and a second end portion adjacent to the second media construction second end;
 - (A) selected ones of the second media construction flutes being open at the second media construction first end portion and closed at the second media construction second end portion; and selected ones of the flutes being closed at the second media construction first end portion and open at the second media construction second end portion to result in a second media construction upstream flow face and a second media construction downstream flow face;
 - (ii) the second media construction forming a non-rectangular parallelogram;
- (c) said first media construction and said second media construction being secured together;

- (i) said first media construction downstream flow face opposing said second media construction downstream flow face.
- 10. A filter element according to claim 9 wherein:
 - (a) said first media construction and said second media construction are angled relative to each other to form a V-configuration having an apex.
- 11. A filter element according to claim 10 further comprising:
 - (a) a first end cap and a second end cap;
 - (i) said first media construction extending between and being secured to said first end cap and said second end cap; and
 - (ii) said second media construction extending between and being secured to said first end cap and said second end cap.
- 12. A filter element according to claim 11 wherein:
 - (a) said first media construction includes opposite first and second sides; each of said first and second sides being in a respective plane angled relative to said first media construction upstream flow face;
 - (i) said first media construction first side being sealably secured to said first end cap; and
 - (ii) said first media construction second side being sealably secured to said second end cap;
 - (b) said second media construction includes opposite first and second sides; each of said second media construction first and second sides being in a respective plane angled relative to said second media construction upstream flow face;
 - (i) said second media construction first side being sealably secured to said first end cap; and
 - (ii) said second media construction second side being sealably secured to said second end cap.

13. A filter element according to claim 12 wherein:
- (a) said first media construction and said second media construction each includes:
 - (i) a plurality of stacked media members; each of the media members having a corrugated sheet secured to a flat sheet.
14. A filter element according to claim 13 wherein:
- (a) the corrugated sheet comprises a regular curved wave pattern of corrugations.
15. A gas turbine air intake system comprising:
- (a) a frame having a tube sheet defining an aperture;
 - (b) a first filter element mounted on the frame and sealed against the tube sheet in gas-flow communication with the aperture; the first filter element including:
 - (i) at least a first media construction; the first media construction having opposite first and second ends and a plurality of flutes;
 - (ii) each of the flutes having a first end portion adjacent to the first media construction first end, and a second end portion adjacent to the first media construction second end;
 - (A) selected ones of the flutes being open at the first end portion and closed at the second end portion; and selected ones of the flutes being closed at the first end portion and open at the second end portion to result in an upstream flow face and a downstream flow face; and
 - (c) a cleaning system oriented to send flow of pressurized fluid into the first media construction through the downstream flow face, and out of the first media construction through the upstream flow face.
16. A gas turbine air intake system according to claim 15 wherein:

- (a) said first filter element includes the first media construction and a second media construction; the second media construction having opposite first and second ends and a plurality of flutes;
 - (i) each of the second media construction flutes having a first end portion adjacent to the second media construction first end, and a second end portion adjacent to the second media construction second end;
 - (A) selected ones of the second media construction flutes being open at the second media construction first end portion and closed at the second media construction second end portion; and selected ones of the flutes being closed at the second media construction first end portion and open at the second media construction second end portion to result in a second media construction upstream flow face and a second media construction downstream flow face;
 - (b) said first media construction and said second media construction being secured together;
 - (i) said first media construction downstream flow face opposing said second media construction downstream flow face to form a clean air plenum in gas flow communication with the aperture in the tube sheet.
- 17. A gas turbine air intake system according to claim 16 wherein:
 - (a) said first filter element further includes first and second opposite end caps;
 - (i) said first media construction being secured to and extending between said first and second end caps;
 - (ii) said second media construction being secured to and extending between said first and second end caps; and
 - (b) said first media construction and said second media construction are angled relative to each other to form a V-configuration having an apex and a mouth;

- (i) said mouth being sealed against said tube sheet.

18. A gas turbine air intake system according to claim 17 further including:

- (a) a second filter element mounted on said frame; said second filter element including:
 - (i) a third media construction; the third media construction having opposite first and second ends and a plurality of flutes;
 - (A) each of the third media construction flutes having a first end portion adjacent to the third media construction first end, and a second end portion adjacent to the third media construction second end;
 - (B) selected ones of the flutes being open at the third media construction first end portion and closed at the third media construction second end portion; and selected ones of the flutes being closed at the third media construction first end portion and open at the third media construction second end portion to result in a third media construction upstream flow face and a third media construction downstream flow face;
 - (ii) a fourth media construction; the fourth media construction having opposite first and second ends and a plurality of flutes;
 - (A) each of the fourth media construction flutes having a first end portion adjacent to the fourth media construction first end, and a second end portion adjacent to the fourth media construction second end;
 - (B) selected ones of the fourth media construction flutes being open at the fourth media construction first end portion and closed at the fourth media construction second end portion; and selected ones of the flutes being closed at the fourth media construction first end portion and open at the fourth media construction second end portion to result in a fourth

media construction upstream flow face and a fourth media construction downstream flow face;

- (c) said third media construction and said fourth media construction being secured together in a V-configuration having a mouth and an apex.
19. A gas turbine air intake system according to claim 18 wherein:
- (a) said second filter element defines a clean air plenum; and
 - (b) said second filter element is abutted against said first filter element;
 - (i) said second filter element clean air plenum being in gas flow communication with the clean air plenum of the first filter element to form a joint clean air plenum.
20. A method of servicing a gas turbine air intake system; the method comprising:
- (a) removing a first filter element arrangement from a tube sheet mounted on a frame, including releasing a seal between the first filter element and the tube sheet; the first filter element arrangement including:
 - (i) a first media construction and a second media construction; the first media construction having opposite first and second ends and a plurality of flutes;
 - (ii) each of the flutes having a first end portion adjacent to the first media construction first end, and a second end portion adjacent to the first media construction second end;
 - (A) selected ones of the flutes being open at the first end portion and closed at the second end portion; and selected ones of the flutes being closed at the first end portion and open at the second end portion to result in an upstream flow face and a downstream flow face;
 - (iii) the second media construction having opposite first and second ends and a plurality of flutes;
 - (A) each of the second media construction flutes having a first end portion adjacent to the second media construction first

- end, and a second end portion adjacent to the second media construction second end;
- (B) selected ones of the second media construction flutes being open at the second media construction first end portion and closed at the second media construction second end portion; and selected ones of the flutes being closed at the second media construction first end portion and open at the second media construction second end portion to result in a second media construction upstream flow face and a second media construction downstream flow face;
 - (iv) the first media construction and the second media construction being secured together to form a first V-configuration of Z-media;
 - (b) orienting a second, new filter element arrangement into sealing engagement with the tube sheet; the second filter element arrangement including:
 - (i) a first media construction and a second media construction; the first media construction having opposite first and second ends and a plurality of flutes;
 - (ii) each of the flutes having a first end portion adjacent to the first media construction first end, and a second end portion adjacent to the first media construction second end;
 - (A) selected ones of the flutes being open at the first end portion and closed at the second end portion; and selected ones of the flutes being closed at the first end portion and open at the second end portion to result in an upstream flow face and a downstream flow face;
 - (iii) the second media construction having opposite first and second ends and a plurality of flutes;
 - (A) each of the second media construction flutes having a first end portion adjacent to the second media construction first

end, and a second end portion adjacent to the second media construction second end;

- (B) selected ones of the second media construction flutes being open at the second media construction first end portion and closed at the second media construction second end portion; and selected ones of the flutes being closed at the second media construction first end portion and open at the second media construction second end portion to result in a second media construction upstream flow face and a second media construction downstream flow face;

- (iv) the first media construction and the second media construction of the second filter element arrangement being secured together to form a V-configuration of Z-media.